

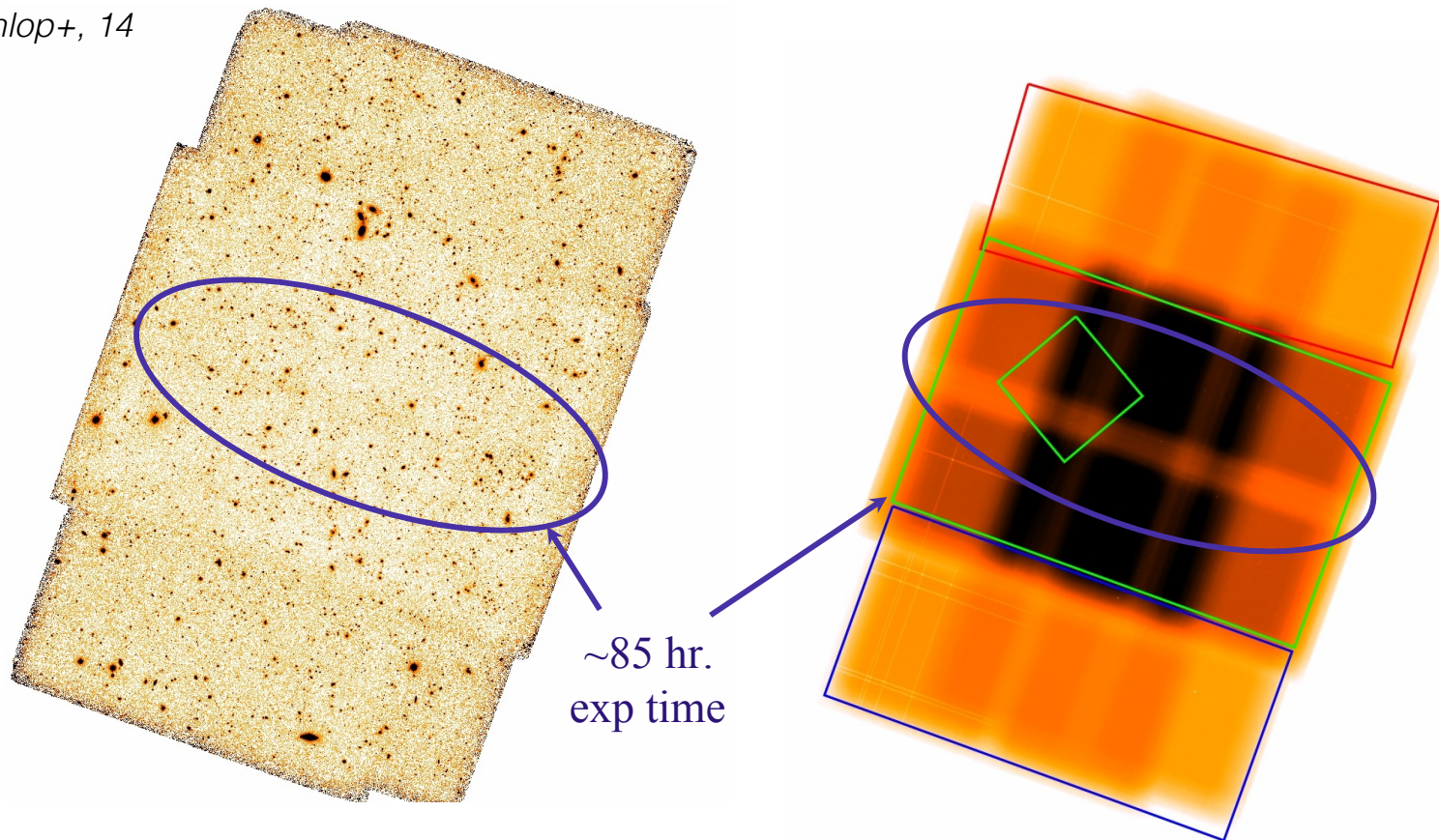
HUGS (Hawk-I UDS and GOODS Survey):

A Rome-Edinburgh+ CANDELS program
A.Fontana (PI), J. Dunlop, Faber, Ferguson et al...

Large Hawk-I@VLT program (250hr)

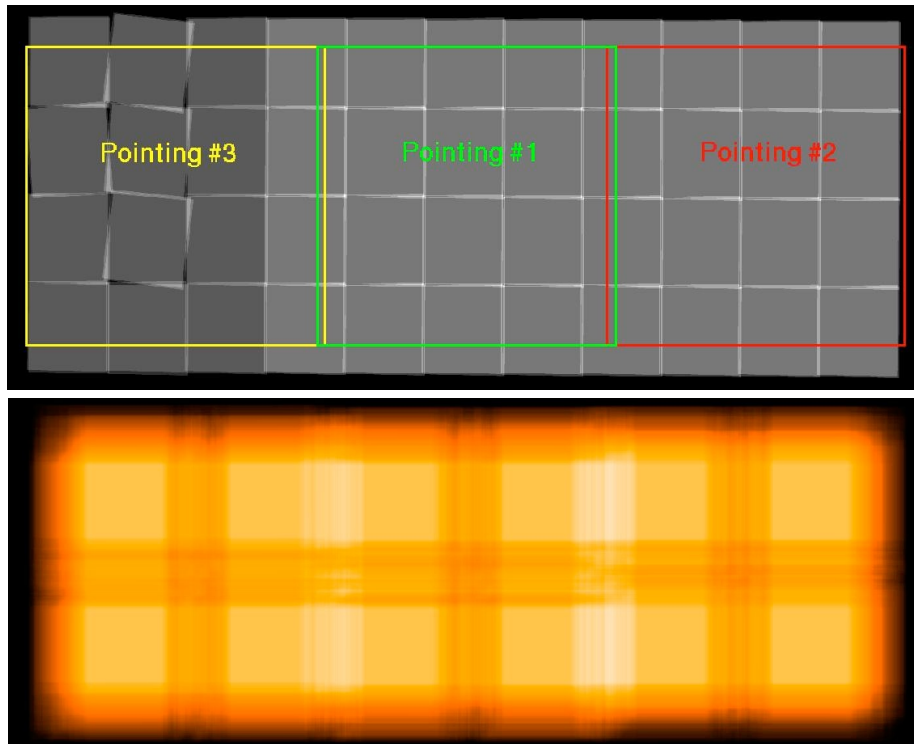
186.A- 0898 + 181.A- 0717 AND HAWK-I SV

Fontana, Dunlop+, 14



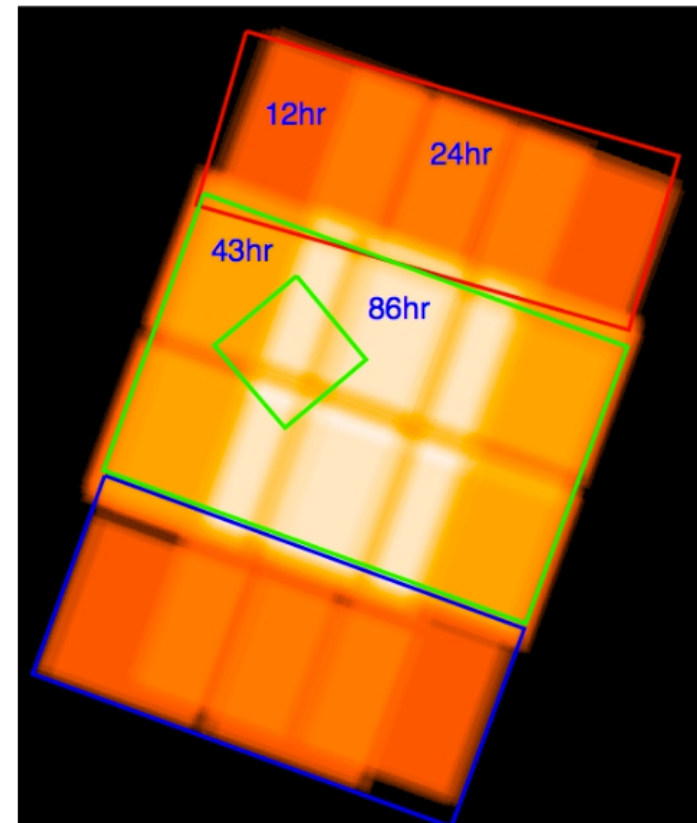
UDS Observing Plan:

- 3 pointings, 85% of the CANDELS area
- Y~26.5 (~8h per pointing) and K~26 (~13h per pointing)



GOODS Observing Plan:

- 100% of the CANDELS area
- The deepest K band ever
- Matches deep/wide depth



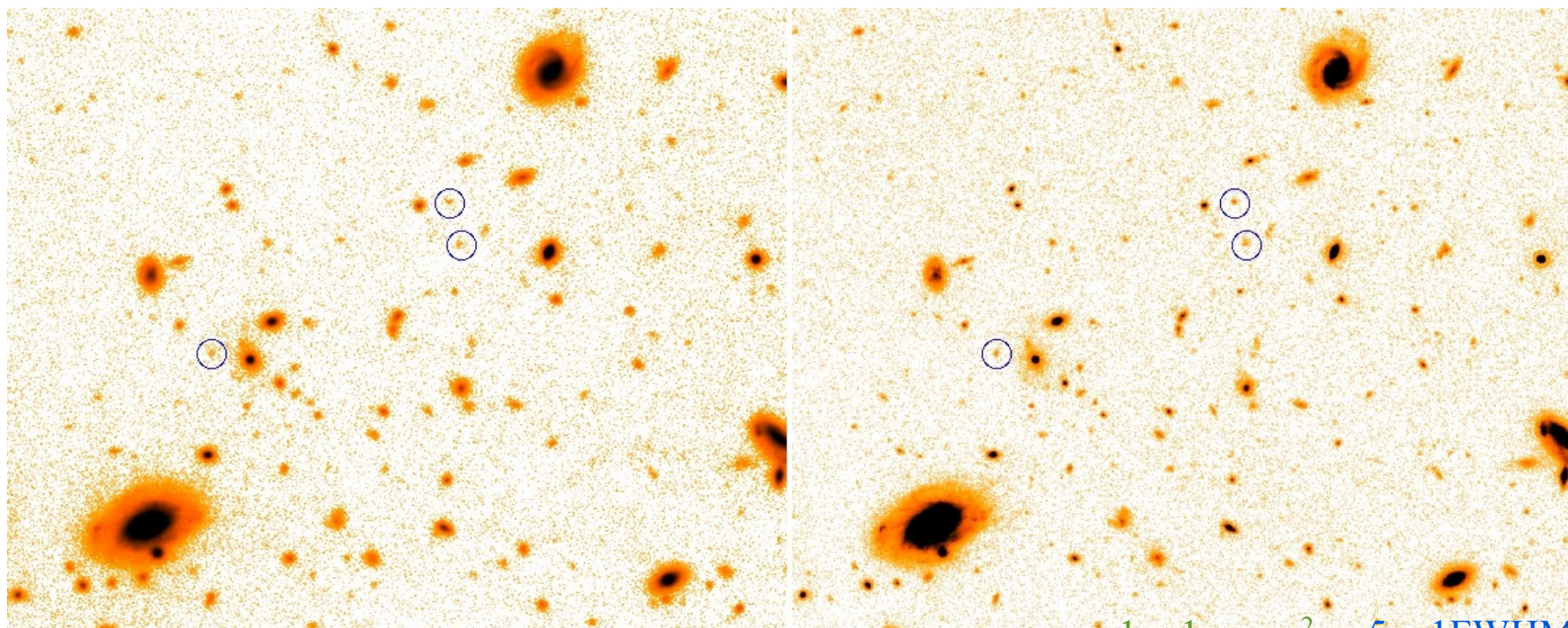
HUGS (HawK-I UDS and GOODS Survey):



A.Fontana (PI), J. Dunlop, Faber, Ferguson et al...

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Large Hawk-I@VLT program (250hr)



$1\sigma, 1\text{arcsec}^2$ $5\sigma, 1\text{FWHM}^2$

Layout and summary of observations for the GOODS-S field. We note that each pointing has been rotated with PA=-19.5degrees

Pointing	Central RA	Central DEC	Exposure time (Sec)	Final seeing	maglim ⁽¹⁾	maglim ⁽²⁾
K band						
GOODS-D1	03:32:36.835	-27:47:45.24	113520	0.39	27.8	26.5
GOODS-D2	03:32:24.890	-27:48:33.22	112800	0.38	27.8	26.5
GOODS-W1	03:32:41.080	-27:51:44.32	47220	0.43	27.4	26.0
GOODS-W2	03:32:29.650	-27:44:37.26	40800	0.38	27.3	26.0
GOODS-W3	03:32:31.796	-27:51:01.74	37320	0.38	27.3	25.9
GOODS-W4	03:32:20.242	-27:44:59.97	41880	0.42	27.3	25.8

UDS

K band: 8 / 13 / 13 hr exposure time/pointing

Seeing: 0.38 - 0.37 - 0.43

maglim (1σ - 1sqarcsec): 26.78 27.41 27.34

maglim (5σ - 2FWHM): 25.78 26.41 26.34

Y band: 8 hr exposure time/pointing

Seeing: 0.48'' - 0.45'' - 0.50''

maglim (1σ - 1sq arcsec): 28.28 - 28.42 - 28.36

maglim (5σ - 2FWHM): 26.89 - 27.03 - 26.97



K-band number counts

Fontana, Dunlop+, 14

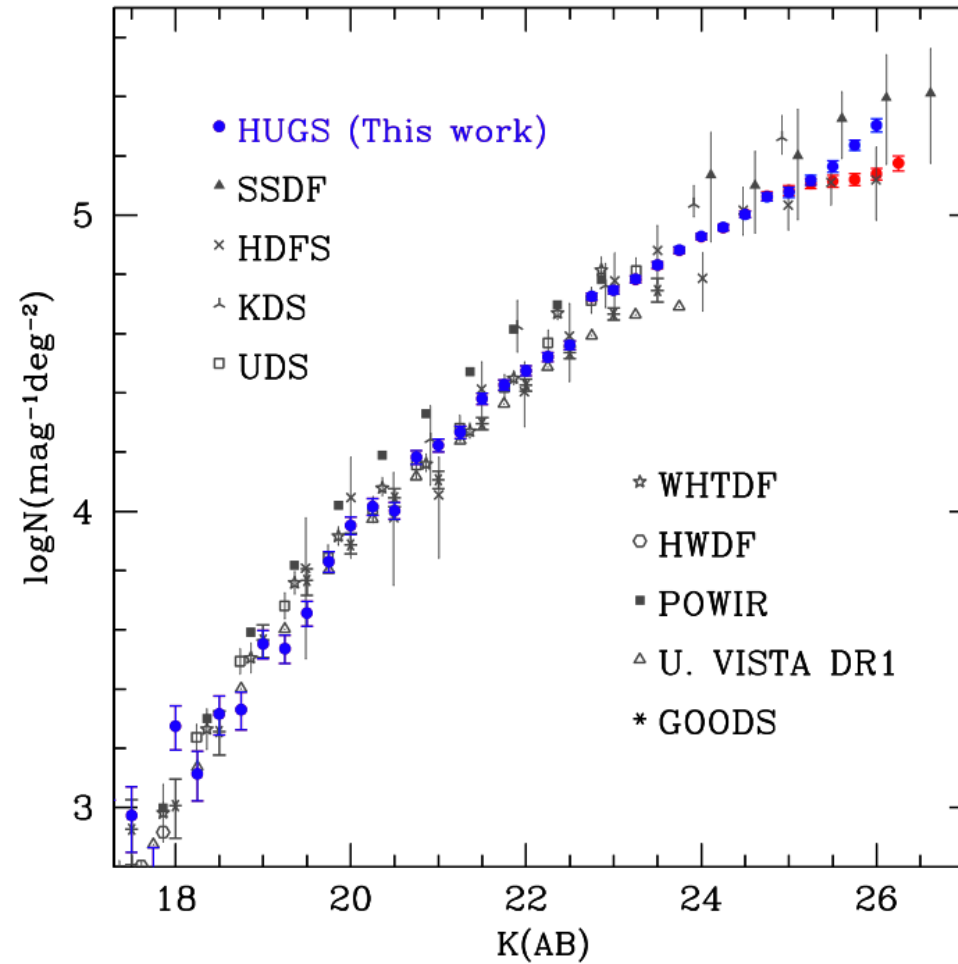
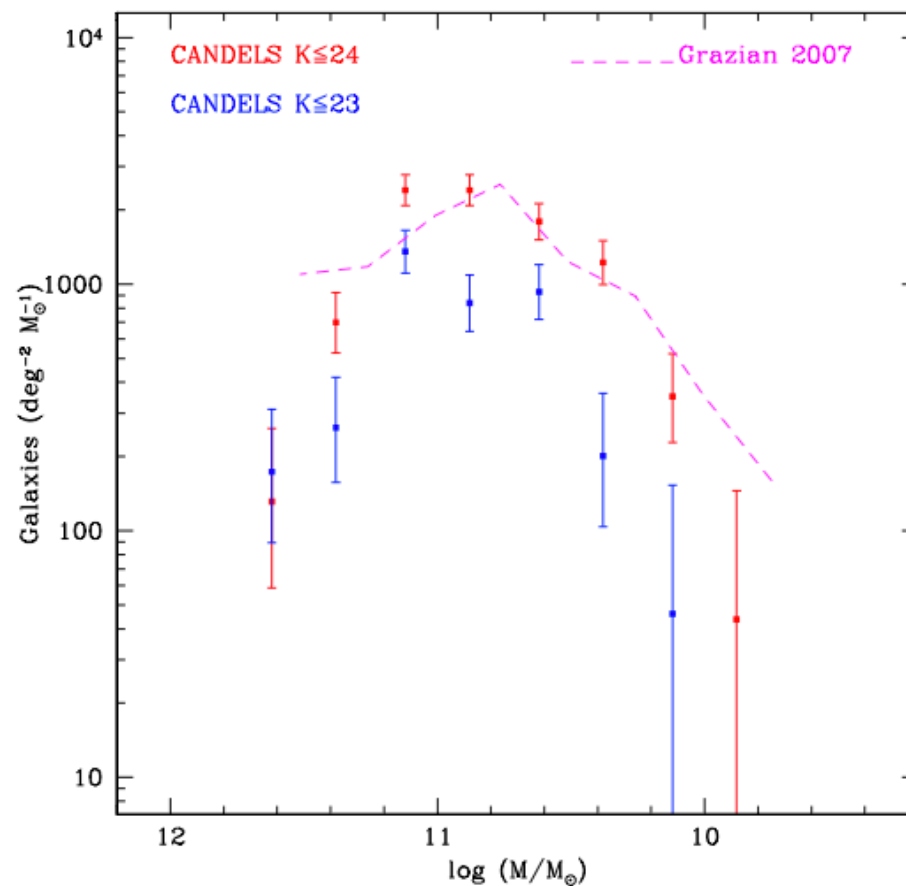
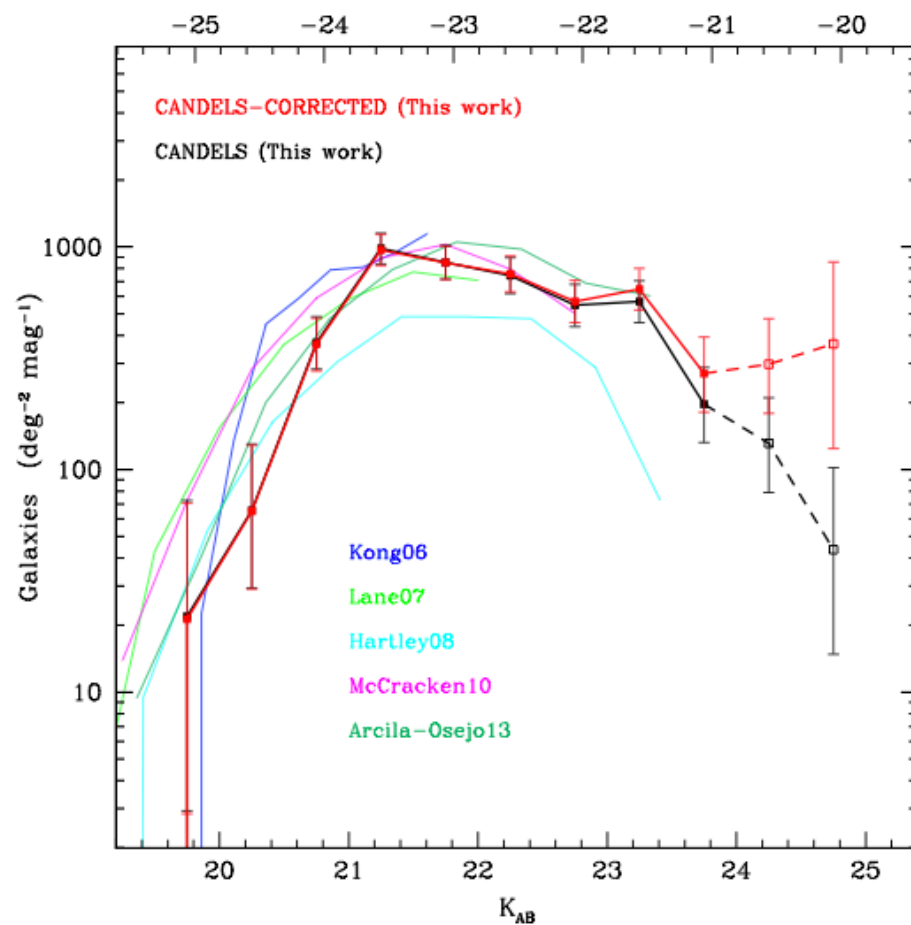


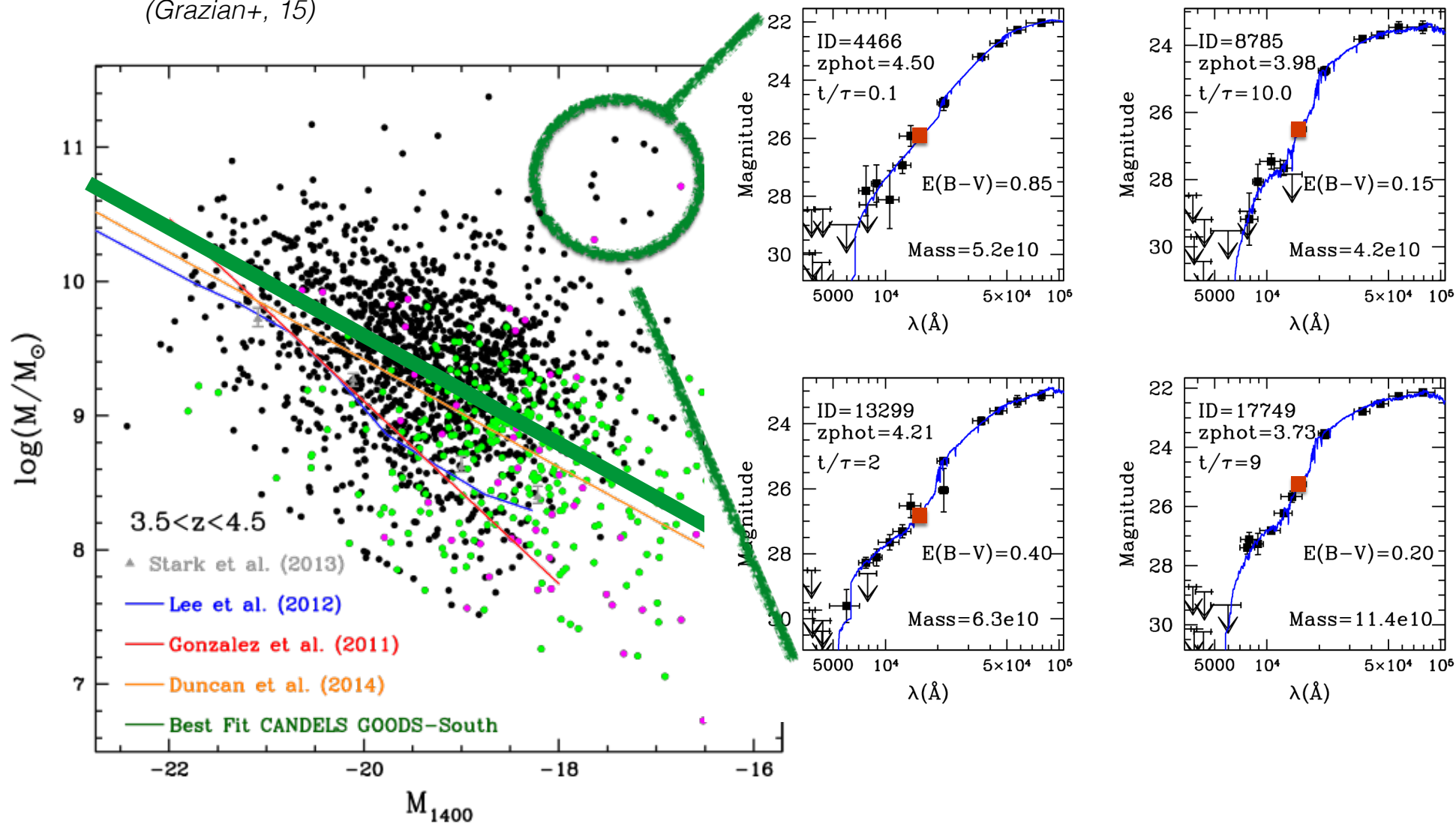
Fig. 12. Number counts in the K -band, from HUGS and from the recent

A turnover in the MF of passive galaxies at $z \sim 2$

V. Sommariva et al.: A mass threshold in the number density of passive galaxies at $z \sim 2$



(Grazian+, 15)



CANDELS MASS FUNCTION - GOODS-S+UDS.

H-selected sample, full photo-z selection

(Grazian+15, A&A, arXiv 1412.0532)

